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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-03-29-110 **Date: 18/03/2019**

Customer : Assistant Executive Engineer, T- Dasarahalli Sub Division, BBMP, Bangalore.

Address : T- Dasarahalli Sub Division, BBMP, Bangalore.

Project Name : Construction of Drain and Concrete Works at Karekallu and Bagalagunte Old Village Surrounding in Ward No.14 Bagalagunte

Agency : Technical Manager(West) KRIDL, No.280,59th Cross 17th C Main Road 3rd Y Block, Rajajinagara, Bangaluru-560010

Customer's Reference : EE/DD/WO/365/18-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 13-03-19

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 18/03/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	11/03/2019	18/03/2019	150.34 X 151.11 X 149.07	22718	8.522	411.4	18.1	18.5
2	Drain Side Wall Concrete	M20	11/03/2019	18/03/2019	149.17 X 149.00 X 150.28	22227	8.472	414.9	18.7	
3	Drain Side Wall Concrete	M20	11/03/2019	18/03/2019	149.95 X 151.35 X 150.89	22694	8.800	425.6	18.8	

Note:

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ASSISTANT EXECUTIVE ENGINEER
B B M P Dasarahalli, Sub Division
Bagalagunte, Bangalore-73.

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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Customer : Assistant Executive Engineer, T- Dasarahalli Sub Division, BBMP, Bangalore.

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Project Name : Construction of Drain and Concrete Works at Karekallu and Bagalagunte Old Village Surrounding in Ward No.14 Bagalagunte

Agency : Technical Manager(West) KRIDL, No.280,59th Cross 17th C Main Road 3rd Y Block, Rajajinagara, Bangaluru-560010

Customer's Reference : EE/DD/WO/365/18-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 13-03-19

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 18/03/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	11/03/2019	18/03/2019	151.15 X 149.37 X 151.53	22577	8.522	420.9	18.6	18.6
2	Drain Side Wall Concrete	M20	11/03/2019	18/03/2019	150.50 X 149.39 X 151.50	22483	8.472	407.9	18.1	
3	Drain Side Wall Concrete	M20	11/03/2019	18/03/2019	151.26 X 150.42 X 149.06	22753	8.800	430.3	18.9	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2019-03-29-110** **Date: 19/03/2019**
Customer	:	Assistant Executive Engineer, T- Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	T- Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Drain and Concrete Works at Karekallu and Bagalagunte Old Village Surrounding in Ward No.14 Bagalagunte
Agency	:	Technical Manager(West) KRIDL, No.280,59th Cross 17th C Main Road 3rd Y Block, Rajajinagara, Bangaluru-560010
Customer's Reference	:	EE/DD/WO/365/18-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	14-03-19
Customer ID	:	Cement Concrete Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	19/03/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	12/03/2019	19/03/2019	150.94 X 150.73 X 150.42	22751	8.467	580.3	25.5	25.5
2	Cement Concrete Pavement	M30	12/03/2019	19/03/2019	150.17 X 149.36 X 149.12	22430	8.493	605.4	27.0	
3	Cement Concrete Pavement	M30	12/03/2019	19/03/2019	150.50 X 149.52 X 150.40	22502	8.918	541.5	24.1	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2019-03-29-110**
Customer	:	Assistant Executive Engineer, T- Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	T- Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Drain and Concrete Works at Karekallu and Bagalagunte Old Village Surrounding in Ward No.14 Bagalagunte
Agency	:	Technical Manager(West) KRIDL, No.280,59th Cross 17th C Main Road 3rd Y Block, Rajajinagara, Bangaluru-560010
Customer's Reference	:	EE/DD/WO/365/18-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	14-03-19
Customer ID	:	Cement Concrete Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date: 19/03/2019

Date of test : 19/03/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	12/03/2019	19/03/2019	149.41 X 150.63 X 151.19	22505	8.467	579.0	25.7	25.5
2	Cement Concrete Pavement	M30	12/03/2019	19/03/2019	151.51 X 151.52 X 149.00	22958	8.493	616.0	26.8	
3	Cement Concrete Pavement	M30	12/03/2019	19/03/2019	151.80 X 149.52 X 151.64	22698	8.918	545.9	24.1	

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2019-03-29-110** **Date: 05-03-19**
Customer	:	Assistant Executive Engineer, T- Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	T- Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Drain and Concrete Works at Karekallu and Bagalagunte Old Village Surrounding in Ward No.14 Bagalagunte
Agency	:	Technical Manager(West) KRIDL, No.280,59th Cross 17th C Main Road 3rd Y Block, Rajajinagara, Bangaluru-560010
Customer's Reference	:	EE/DD/WO/365/18-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	28-02-19
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	01-03-19
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.89	–
2	Finess by Air permeablity method (m^2/kg,Min)	288.8	225m^2/kg, Min
3	Density (gm/cc)	3.14	–
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	175 minutes	Not less than 30 minutes
6	Final Setting time	270 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

Note:

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2019-03-29-110** **Date: 29-03-19**
Customer	:	Assistant Executive Engineer, T- Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	T- Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Drain and Concrete Works at Karekallu and Bagalagunte Old Village Surrounding in Ward No.14 Bagalagunte
Agency	:	Technical Manager(West) KRIDL, No.280,59th Cross 17th C Main Road 3rd Y Block, Rajajinagara, Bangaluru-560010
Customer's Reference	:	EE/DD/WO/365/18-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	28-02-19
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	01-03-19
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2019-03-29-110** **Date: 05-03-19**
Customer	:	Assistant Executive Engineer, T- Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	T- Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Drain and Concrete Works at Karekallu and Bagalagunte Old Village Surrounding in Ward No.14 Bagalagunte
Agency	:	Technical Manager(West) KRIDL, No.280,59th Cross 17th C Main Road 3rd Y Block, Rajajinagara, Bangaluru-560010
Customer's Reference	:	EE/DD/WO/365/18-19
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	28-02-19
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	28-02-19

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	1173	1173	7.8	92.2	90-100
3	20 mm	5824	6997	46.6	53.4	30-70
4	10 mm	4729	11726	78.2	21.8	10-35
5	4.75 mm	2546	14272	95.1	4.9	0-5
6	Pan	728	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2019-03-29-110** **Date: 05-03-19**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.8	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	13.3	
3	Specific Gravity	2.68	–
4	Bulk Density(Loose) (Kg/l)	1.51	–
5	Bulk Density(Compacted) (Kg/l)	1.56	–
6	Water Absorption(%)	0.22	–

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